

Translation

PATENT COOPERATION TREATY

PCT/FR2003/003788



PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PA1664WO	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/FR2003/003788	International filing date (day/month/year) 18 décembre 2003 (18.12.2003)	Priority date (day/month/year) 20 décembre 2002 (20.12.2002)
International Patent Classification (IPC) or national classification and IPC G03F 7/095, 7/00, B81B 1/00		
Applicant COMMISSARIAT A L'ENERGIE ATOMIQUE		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet. <input type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of _____ sheets.
3. This report contains indications relating to the following items: I <input checked="" type="checkbox"/> Basis of the report II <input type="checkbox"/> Priority III <input type="checkbox"/> Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV <input type="checkbox"/> Lack of unity of invention V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement VI <input type="checkbox"/> Certain documents cited VII <input type="checkbox"/> Certain defects in the international application VIII <input type="checkbox"/> Certain observations on the international application

Date of submission of the demand 12 juillet 2004 (12.07.2004)	Date of completion of this report 05 January 2005 (05.01.2005)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

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I. Basis of the report

1. With regard to the elements of the international application:*

☒ the international application as originally filed

☒ the description:

pages 1-11, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☒ the claims:

pages 1-11, as originally filed

pages _____, as amended (together with any statement under Article 19

pages _____, filed with the demand

pages _____, filed with the letter of _____

☒ the drawings:

pages 1/4-4/4, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

☐ the sequence listing part of the description:

pages _____, as originally filed

pages _____, filed with the demand

pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language _____ which is:

☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).

☐ the language of publication of the international application (under Rule 48.3(b)).

☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages _____

☐ the claims, Nos. _____

☐ the drawings, sheets/fig _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rule 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

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V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-11	YES
	Claims		NO
Inventive step (IS)	Claims	1-11	YES
	Claims		NO
Industrial applicability (IA)	Claims	1-11	YES
	Claims		NO

2. Citations and explanations

Reference is made to the following documents:

D1 : EP-A-0 851 295 (ECOLE POLYTECH) 1 July 1998
(1998-07-01)

D2: DE 37 02 897 A (MERCK PATENT GMBH) 11 August 1988
(1988-08-11)

D3: US-A-2 964 401 (PLAMBECK JR LOUIS) 13 December
1960 (1960-12-13)

D4: " Photosensitive material for forming image,
consists of a support provided with a
photosensitive layer and hardenable layer which
is surface treated by corona and flow
discharge" DERWENT, 31 May 1994 (1994-05-31),
XP002258655

D5: "Removal of image by resist film lead frame - by
laminating new pressure-sensitive adhesive or
adhesive sheet, which is curable, on image
using resist film, hardening adhesive layer and
releasing layer with resist" DERWENT, 26 May
2000 (2000-05-26), XP002258656

D6: WO 01/37050 A (NIENHAUS MATTHIAS ; SCHMITZ
FELIX (DE); INST MIKROTECHNIK MAINZ GMBH ()) 25
May 2001 (2001-05-25)

D7: PATENT ABSTRACTS OF JAPAN vol. 0124, no. 07 (E-
675), 27 October 1988 (1988-10-27) & JP 63
146599 A (KYORITSU KAGAKU SANGYO KK; others:
02), 18 June 1988 (1988-06-18)

Documents D2 to D4, which are considered the prior art closest to the subject matter of claim 1, describe structures provided with a layer between a substrate and a photostructurable layer; according to D2, said layer is not necessarily negative, and the photoinitiator is bonded to a polymeric component; in D3, said layer is the same as the photostructurable layer, comprising a higher concentration of photoinitiator, and according to D4, said layer is a curable layer that is treated by a corona effect.

Document D1, which is considered to be less relevant, discloses (between a substrate and a photostructurable layer) a sacrificial layer preferably made of aluminium. Documents D5 to D7 are also considered to be less relevant; D7 relates to a reinforced paper and D5 and D6 do not disclose adhesive layers with a polymer (elastomer) and a photoinitiator.

Therefore, the subject matter of claim 1 is novel (PCT Article 33(2)).

The problem that the present invention is intended to solve can therefore be considered to be that of providing an adhesive layer usable, in particular, for forming microstructures; said problem is not directly addressed in

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the cited documents.

For this reason, the solution to said problem, as proposed in claim 1 of the present application, is considered to involve an inventive step (PCT Article 33(3)).

Claims 2-11 are dependent on claim 1, and therefore also meet, as such, the PCT requirements of novelty and inventive step.